

In the Claims:

Listing of all claims:

1-37. (Cancelled.)

1 38. (Original) A system for welding
2 comprising:
3 a welding power source having a welding power
4 output;
5 a wire feeder connected to the welding output and
6 having a speed control input; and
7 a controller having a speed control output
8 connected to the speed control input having a weld wire
9 speed set point, and a run-in wire speed set point, wherein
10 the run-in speed set point is a set percentage of the weld
11 wire speed set point.

1 39. (Original) The system of claim 38, wherein the
2 set percentage is a user selectable percentage.

1 40. (Original) The system of claim 39, wherein the
2 percentage is between 25 percent and 150 percent.

1 41. (Original) The system of claim 39, wherein the
2 system includes a weld wire feed user input, and wherein the
3 controller includes a run-in set circuit including a percent
4 input connected to the user input and an enable input.

1 42. (Original) The system of claim 41, wherein the
2 enable input receives a trigger state signal and a power-up
3 signal.

1 43. (Original) The system of claim 42 wherein the
2 user input is a potentiometer.

1 44. (Original) The system of claim 43, wherein the
2 enable input is connected to a user selectable toggle switch.

3 45. The system of claim 38 wherein the controller is a
4 microprocessor controller.

1 46. (Original) The system of claim 38 wherein the
2 controller is an analog controller.

1 47. (Original) A system for welding
2 comprising:
3 power means for supplying welding power to an arc;
4 feeder means for feeding wire to the arc; and
5 control means for controlling a speed of the
6 feeder means to a weld speed and a run-in speed, wherein the
7 run-in speed set point is a set percentage of the weld speed
8 set point, connected to the feeder means.

1 48. (Original) The system of claim 47, further
2 comprising means for allowing the user to select the set
3 percentage, connected to the control means.

1 49. (Original) A method of welding
2 comprising:
3 providing welding power to an arc;
4 feeding wire to the arc;
5 controlling the speed of the wire during a run-in
6 state; and
7 controlling the speed of the wire during a weld
8 state, wherein the run-in speed set is a set percentage of
9 the weld speed.

1 50. (Original) The method of claim 49, including
2 using a user selectable percentage as the set percentage.

1 51. (Original) The method of claim 50, including
2 using the set percentage from the range of between 25 percent and
3 150 percent.

1 52. (Original) The method of claim 51, including
2 determining the user selected percentage speed in response to an
3 enable signal and a weld wire feed user input.

1 53. (Original) A welding-type power supply,
2 comprising:
3 a power source;
4 a controller, connected to the power source, and
5 having at least one set point input, and at least one
6 calibration input;
7 a user-selectable input connected to the at least
8 one set point input, and further connected to the at least
9 one calibration input.

1 54. (Original) The welding-type power supply of
2 claim 53, further comprising an input-selection circuit,
3 connected to the controller, wherein the controller enables one
4 of the calibration input and set point input, and disables the
5 other of the set point input and calibration input.

1 55. (Original) The welding-type power supply of
2 claim 54, further comprising a user-selectable switch connected
3 to the input-selection circuit.

1 56. (Original) The welding-type power supply of
2 claim 55, wherein the user selectable switch is a toggle switch.

1 57. (Original) The welding-type power supply of
2 claim 56, wherein the user-selectable input is a potentiometer on
3 a user control panel.

1 58. (Original) The welding-type power supply of
2 claim 54, wherein the controller is a microprocessor controller.

1 59. (Original) The welding-type power supply of
2 claim 58, wherein the microprocessor controller includes storage
3 of at least one user-selected calibration value received on the
4 calibration input.

1 60. (Original) The welding-type power supply of
2 claim 59, wherein the microprocessor controller includes storage
3 of at least two user-selected calibration values received on the
4 calibration input, and wherein the microprocessor includes a

5 scaling circuit that scales at least one of a command output or a
6 feedback output responsive to the at least two user-selected
7 calibration values.

1 61. (Original) The welding-type power supply of
2 claim 60, wherein the microprocessor controller includes a
3 digital output disposed to output the at least two user-selected
4 calibration values.

1 62. (Original) The welding-type power supply of
2 claim 55, further comprising a calibration pendant, on which the
3 toggle switch is mounted.

1 63. (Original) The welding-type power supply of
2 claim 53, wherein the calibration input is an output voltage
3 calibration input.

1 64. (Original) The welding-type power supply of
2 claim 53, further comprising:
3 a wire feeder connected to the controller; and
4 a second user selectable input; wherein
5 the controller includes a wire feed speed calibration
6 input and a wire feed speed set point input, both connected to
7 the second user-selectable input.

1 65. (Original) A welding-type power supply,
2 comprising:
3 power means for providing power;
4 input means for receiving user-selectable input;
5 and

6 control means, connected to the input means and
7 the power means, for controlling the power means, and for
8 selectively choosing one of a set point and a calibration
9 value as a value received from the input means.

1 66. (Original) The welding-type power supply of
2 claim 65, further comprising means for the user to selectively
3 choosing one of the set point and the calibration value as the
4 value received from the input means.

1 67. (Original) The welding-type power supply of
2 claim 65, including means for storing at least one user-selected
3 calibration value received on the calibration input.

1 68. (Original) A method of calibrating a
2 welding-type power supply, of the type having a user-
3 selectable set point input, comprising:

4 detecting whether or not the power supply is in a
5 calibration mode;

6 receiving a value from the user-selectable set
7 point input as a calibration value if the power supply is in
8 the calibration mode; and

9 receiving a value from the user-selectable set
10 point input as a set point value if the power supply is not
11 in the calibration mode.

1 69. (Original) The method of claim 68, further
2 comprising receiving a user-selection indicating if the power
3 supply is in the calibration mode.

1 70. (Original) The method of claim 68, further
2 comprising storing the calibration value.